

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/028,581	12/20/2001	Joseph M. Fontana	2356P	3274	
7590 12/24/2003			EXAM	EXAMINER	
SAWYER LAW GROUP LLP P.O. Box 51418			ELISCA, F	PIERRE E	
Palo Alto, CA 94303			ART UNIT	PAPER NUMBER	
			3621		
			D		

DATE MAILED: 12/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

## Application No.

10/028,581

Applicant(s)

Joseph M. Fontana et al.

Office Action Summary Examiner

Pierre E. Elisca

Art Unit 3621



1)		The MAILING DATE of this communication appears	on the cover sheet with the correspondence address			
THE MALING DATE OF THIS COMMUNICATION.  Extraction of time may be withink order the provision of 37 CR 1.130 (a). In no event, however, may a reply be timely filed offer SIX (8) MONTHS from the mailing date of the communication.  If No priced for maky as specified devore, the maximum statistical period will early and will sept and will		• •				
Extension of time may be available under the provisions of 37 CPR 1.136 (a). In no event, however, may a reply be treaty find after \$K (8) MONTHS from the mailing date of the communication.  If the paided for reply specified above is best than thiny (30) days, a reply within the statutory minimum of thiny (30) days will be communication.  If the paided for reply specified above, the maximum statutory period will explay \$K (8) MONTHS from the mailing date of the communication.  If the paided for reply specified above, the maximum statutory period will explay \$K (8) MONTHS from the mailing date of the communication.  If the paided for reply specified above, the maximum statutory period will explay \$K (8) MONTHS from the mailing date of the communication.  If NO period for reply specified above, the maximum statutory period will explay \$K (8) MONTHS from the mailing date of the communication.  If NO period for reply specified above, the maximum statutory period will explay the will define the communication.  If NO period for reply specified above, the maximum statutory period will reply the specification is non-final.  In part of the specification is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under \$Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.  Disposition of Claims  Is/are pending in the application.  Is/are withdrawn from consideration.  Is/are withdrawn from consideration.  Is/are withdrawn from consideration.  Is/are allowed.  Is/are objected to.  Is/are objected to.  Is/are objected to.  Is/are objected to.  Is/are objected to by the Examiner.  In particular proposed drawing correction filed on particular proposed drawing of the provision of the foreign in a communication.  If approved, corrected drawings are required in reply to this Office action.  In proposed drawing correction filed on parti		·	TO EXPIRE <u>THREE</u> MONTH(S) FROM			
H the privated for raphy specified above is less than thirty (30) days, a mply within the stantatory minimum of thirty (30) days will be considered timely.  If I/O privated freely is specified down, the maximum statutory period will agrics by early all agrics (I) (I) (III) (						
If No pried for reply is specified above, the maximum statutory period will apply and will apply and will apple 50 (8) MORTHS from the mailing date of the communication.  Failure to reply within the set or extended paried for reply will, by statute, cause he application to be marked part to fire from the provision of the communication, even if timely filed, may reduce any semed period train adjustment. So a 7 CFR 1.704b).  Status	_		e statutory minimum of thirty (30) days will be considered timely.			
Any way received by the Office later than there months after the malling date of this communication, even if timely filed, may reduce any seamed pretter time adjustment. See 37 CFR 1.704(b).  Status    1)	- If NO p	eriod for reply is specified above, the maximum statutory period will apply a	nd will expire SIX (6) MONTHS from the mailing date of this communication.			
Status    1 X  Responsive to communication(s) filled on	- Any re	ply received by the Office later than three months after the mailing date of t				
1)		patent term adjustment. See 37 CFN 1.704(0).				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.    Disposition of Claims		Responsive to communication(s) filed on	6/2003			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.  Disposition of Claims  4) \( \text{Claim(s)} \) \( \text{Laim(s)}	2a) 🗌	This action is <b>FINAL</b> . 2b) 💢 This act	ion is non-final.			
Scalar   S	3) 🗆		•			
day of the above, claim(s)	Disposit	tion of Claims				
Side   Claim(s)	4) 💢	Claim(s) <u>1-39</u>	is/are pending in the application.			
Claim(s)   1-3   6-17   10-21   14-16   10-21   9   is/are rejected.   7)   Claim(s)   5   5   19   23   17   10-25   is/are objected to.   8    Claims	4	a) Of the above, claim(s)	is/are withdrawn from consideration.			
Claim(s)   S   S   S   S   S   S   S   S   S	5) 🗆	Claim(s)	is/are allowed.			
Claim(s)   S   S   S   S   S   S   S   S   S	6) 🛛	Claim(s) 1-3 6-17, 20-22, 24-26 And 19-39	is/are rejected.			
Application Papers   9	7) 🔀	Claim(s) 4, 5, 18, 19, 23, 17, Ant 28	is/are objected to.			
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on						
The drawing(s) filed on is/are a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of:  1 Certified copies of the priority documents have been received.  2 Certified copies of the priority documents have been received in Application No  3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(a)	Applica	tion Papers				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filled on	9) 🗆	The specification is objected to by the Examiner.				
11) The proposed drawing correction filed on	10)	The drawing(s) filed on is/are	a) $\square$ accepted or b) $\square$ objected to by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1 Notice of References Cited (PTO-892)		Applicant may not request that any objection to the d	rawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Priority under 35 U.S.C. §§ 119 and 120  13	11)	The proposed drawing correction filed on	is: a) $\square$ approved b) $\square$ disapproved by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).		If approved, corrected drawings are required in reply t	o this Office action.			
13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § § 120 and/or 121.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)	12)	The oath or declaration is objected to by the Exami	ner.			
a) All b) Some* c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).	·					
1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413) Paper No(s)	13)□	Acknowledgement is made of a claim for foreign pr	fiority under 35 U.S.C. § 119(a)-(d) or (f).			
2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § § 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).	a) 🗀	☐ All b)☐ Some* c)☐ None of:				
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § § 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).	1.  Certified copies of the priority documents have been received.					
application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § § 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).		2. Certified copies of the priority documents have been received in Application No				
14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § § 120 and/or 121.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413) Paper No(s)	application from the International Bureau (PCT Rule 17.2(a)).					
a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).			·			
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).	·	<b>,</b> _, _, _, _, _, _, _, _, _, _, _, _, _,				
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).	•		priority under 35 U.S.C. 33 120 and/or 121.			
			5) Notice of Informal Petent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 8) Other:		· · · · · · · · · · · · · · · · · · ·				

Application/Control Number: 10/028,581 Page 2

Art Unit: 3621

ζ.

## **DETAILED ACTION**

#### **RESPONSE To AMENDMENT**

- 1. This Office action is in response to Applicant's RCE/Amendment, filed 10/06/2003.
- 2. Claims 1-39 are presented for examination.

#### **CLAIM OBJECTION**

3. Claims 4, 5, 18, 19, 23, 27, and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Claim Rejections - 35 USC § 102 (b)

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 (b) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-3, 6-17, 20-22, 24-26 and 29-39 are rejected under 35 U.S.C. 102 (b) as being anticipated by Chou et al. (U.S. Pat. No. 5,222,133).

As per claims 1, 3, 12, 16, 17, 20, 21 and 22 Chou discloses a method of protecting computer software from unauthorized users, comprising:

Application/Control Number: 10/028,581 Page 3

Art Unit: 3621

encrypting the software to be protected using an encryption key, creating encrypted software (see., abstract, specifically wherein it is stated that an algorithm for processing a plurality of keys including the first key in software, col 2, lines 31-54);

authorizing use of the software on the computer system by generating the encryption key within the security device using information supplied from the software (see., abstract, col 1, lines 26-53, specifically wherein it is stated that a first key (or encryption key) is stored in the program and a second key (or encryption key), physically separate from the program, is supplied to the customer with each program sold in a hardware based register. The first and second keys are compared to see if they bear a predetermined relationship to each other, in which case the program is authorized); and sending the encryption key from the security device to the computer system for decryption of the software (see., abstract, specifically wherein it is stated that the first and second keys in the algorithm for deriving a control key, please note that the control key is for decrypting the software since it is a part of the second key, and also col 1, lines 7-25, it is inherent to recognize that the first key can be used to encrypt data and the second key can also be used to decrypt data since they are parts of the control key, fig 1, specifically external computer or security device sending encryption key or software protected with algorithm to computer 14). Chou discloses using at least first and second pieces of information to generate an encryption key (see., abstract, please note that first and second pieces of information are readable as first and second keys, it is inherent to recognize that the first key can be used to encrypt data and the second key can also be used to decrypt data since they are parts of the control key). Chou discloses the claimed method of using an initialization vector (or first key)

Art Unit: 3621

•

and a dynamic key or second key as the first and second pieces of information (see., abstract, col 3,

Page 4

lines 23-39, col 4, lines 19-39, ID or encryption key or code). Chou discloses the claimed method of

using a security key as the encryption key (or control key) and a communications key as the second

encryption key (see., abstract). Chou discloses the software package has been loaded on the computer

(see., Fig 1, items 20, 22 and 26). Chou further discloses a random number on the computer system

(see., col 1, lines 41-53, please note that random number is readable as a pseudorandom number

generator, and the authentication program see., Fig 1, software algorithm).

As per claim 2 Chou discloses the claimed method of using at least first and second pieces of

information to generate an encryption key (see., abstract, please note that first and second pieces of

information is readable as first and second keys);

associating the first piece of information (or first key) with the encrypted software (see., abstract,

specifically wherein it is stated that an algorithm for processing a plurality of keys including the first

key in software, col 2, lines 31-54); and

storing the second piece of information (or second key) in the security device (see., abstract,

specifically wherein it is stated that a second key (or second piece of information), external to the

software, to be protected which bears a relationship to the first key, col 2, lines 31-54).

As per claim 3, Chou discloses the claimed method of sending the first piece information associated

with the encrypted software to the security device (see., abstract, specifically wherein it is stated that

Page 5

Art Unit: 3621

an algorithm for processing a plurality of keys including the first key (or first information) in software,

col 2, lines 31-54); and

using the first piece of information and the second piece of information to generate the encryption

key in the security device (see., abstract, please note that first and second pieces of information is

readable as first and second key, and the first and second keys in the algorithm for deriving a control

key, please note that the control key (control key or encryption key) is for decrypting the software,

and also col 1, lines 7-25, Fig 1).

As per claims 6, 13, 14, 15 and 20 Chou discloses the claimed method of using an initialization vector

(or first key) and a dynamic key or second key as the first and second pieces of information (see.,

abstract, col 3, lines 23-39, col 4, lines 19-39, ID or encryption key or code).

As per claim 7, Chou discloses the claimed method of using a security key as the encryption key (or

control key) and a communications key as the second encryption key (see., abstract ).

As per claim 8, Chou discloses the claimed method of embedding a mathematical algorithm (fig 1,

item 16, col 3, lines 23-39, mathematical algorithm or algorithm) within the security device to create

the communication key (or proper key) and the security key (or newly control key) from the dynamic

key (or second key) and the initialization vector or first key (see., abstract, col 3, lines 23-39).

Page 6

Art Unit: 3621

As per claim 9, Chou discloses the claimed method of including the encrypted software with an

authentication program, wherein the authentication program is embedded within a separate security

processor provided in conjunction with the co-processor (see., abstract, col 3, lines 65-68, col 4, lines

1-39, Fig 1, item 16, please note that the algorithm of Fig 1 is an authentication program, and it is

located within a separate security processor 16 or external computer).

As per claim 10, Chou discloses the claimed method of sharing memory between the security

processor and the co-processor and decrypting the encrypted software in the shared memory (see.,

Fig 1, abstract, col 2, lines 31-54, col 3, lines 63-68, item 10, please note that the second key can be

used to decrypt data in the shared memory since it is a part of the control key).

As per claim 11, Chou discloses the claimed method of preventing the software from running in any

of the co-processor unless the software has first been decrypted by the security processor (see.,

abstract, col 4, lines 1-39, specifically wherein it is stated that if either or both of the two keys

forming the unique key pair do not fit the algorithm as desired, a result which will occur which can

be considered an error, also Fig 1, step 30 erroneous operation or wrong key which is used to stop

the processing of the program).

As per claims 24, 27, 35 and 39 Chou discloses the claimed limitations of protecting computer

software from unauthorized users, comprising:

Application/Control Number: 10/028,581 Page 7

Art Unit: 3621

encrypting the software to be protected using an encryption key, creating encrypted software (see., abstract, col 2, lines 31-54, please note that first and second pieces of information are readable as first and second keys, it is inherent to recognize that the first key can be used to encrypt data and the second key can also be used to decrypt data since they are part of the control key); authorizing use of the software on the computer system by generating the encryption key within the security device using information supplied from the software (see., abstract, Fig 1, col 4, lines 20-39, specifically wherein it is stated that if output 32 is provided, this indicates that a correct code (or encryption key) exists, has been recognized, and thus will permit the continued processing of the protected software); and sending the encryption key from the security device to the computer system for decryption of the software (see., Fig 1, specifically wherein it is stated that the first and second keys in the algorithm for deriving a control key, please note that the control key is for decrypting the software since it is a part of the second key, and also col 1, lines 7-25). Chou discloses wherein said initialization vector (or first key) is created from a checksum of encrypted software to be protected (see., fig 1, checksum or algorithm software, abstract, col 3, lines 23-39, col 4, lines 19-39, ID or encryption key or code). Chou further discloses decrypting the encrypted first encryption key on the computer using the second key included in the software (see., abstract please note that the control key is for decrypting the software since it is a part of the second key, and also col 1, lines 7-25, it is it is inherent to recognize that the first key can be used to encrypt data and the second key can also be used to

decrypt data since they are parts of the control key).

Page 8

Art Unit: 3621

As per claim 25, Chou discloses the claimed limitations using at least first and second pieces of

information to generate an encryption key (see., abstract, please note that first and second pieces of

information is readable as first and second keys);

associating the first piece of information (or first key) with the encrypted software (see., abstract,

specifically wherein it is stated that an algorithm for processing a plurality of keys including the first

key in software, col 2, lines 31-54); and

storing the second piece of information (or second key) in the security device (see., abstract,

specifically wherein it is stated that a second key (or second piece of information), external to the

software, to be protected which bears a relationship to the first key, col 2, lines 31-54).

As per claim 26, Chou discloses the claimed limitations of sending the first piece information

associated with the encrypted software to the security device (see., abstract, specifically wherein it

is stated that an algorithm for processing a plurality of keys including the first key (or first

information) in software, col 2, lines 31-54); and

using the first piece of information and the second piece of information to generate the encryption

key in the security device ( see., abstract, please note that first and second pieces of information is

readable as first and second key, and the first and second keys in the algorithm for deriving a control

key, please note that the control key (control key or encryption key) is for decrypting the software.

and also col 1, lines 7-25, Fig 1).

**Art Unit: 3621** 

As per claims 29, 36, 37 and 38 Chou discloses the claimed limitations of using an initialization vector

Page 9

(or first key) and a dynamic key or second key as the first and second pieces of information (see.,

abstract, col 3, lines 23-39, col 4, lines 19-39, ID or encryption key or code).

As per claim 30, Chou discloses the claimed limitations of using a security key as the encryption key

(or control key) and a communications key as the second encryption key (see., abstract).

As per claim 31, Chou discloses the claimed method of embedding a mathematical algorithm (fig 1,

item 16, col 3, lines 23-39, mathematical algorithm or algorithm) within the security device to create

the communication key (or proper key) and the security key (or newly control key) from the dynamic

key (or second key) and the initialization vector or first key (see., abstract, col 3, lines 23-39).

As per claim 32, Chou discloses the claimed method of including the encrypted software with an

authentication program, wherein the authentication program is embedded within a separate security

processor provided in conjunction with the co-processor (see., abstract, col 3, lines 65-68, col 4, lines

1-39, Fig 1, item 16, please note that the algorithm of Fig 1 is an authentication program, and it is

located within a separate security processor 16 or external computer).

As per claim 33, Chou discloses the claimed method of sharing memory between the security

processor and the co-processor and decrypting the encrypted software in the shared memory (see.,

Page 10

Art Unit: 3621

Fig 1, abstract, col 2, lines 31-54, col 3, lines 63-68, item 10, please note that the second key can be

used to decrypt data in the shared memory since it is a part of the control key).

As per claim 34, Chou discloses the claimed method of preventing the software from running in any

of the co-processor unless the software has first been decrypted by the security processor (see.,

abstract, col 4, lines 1-39, specifically wherein it is stated that if either or both of the two keys

forming the unique key pair do not fit the algorithm as desired, a result which will occur which can

be considered an error, also Fig 1, step 30 erroneous operation or wrong key which is used to stop

the processing of the program).

RESPONSE TO ARGUMENTS

Applicant's arguments filed on 10/06/2003 have been fully considered but they are not 6.

persuasive.

REMARKS

In response to Applicant's arguments filed on 10/06/2003, Applicant argues that the prior 7.

art of record taken alone or in combination fails to disclose:

a. " Applicant argues that it is unclear what the Examiner considers analogous to the claimed

encryption key". Based upon the foregoing rejection indicated above, it is believed that Chou

Art Unit: 3621

discloses a method for protecting computer software from unauthorized users, wherein the method

Page 11

also includes an algorithm for processing a plurality of keys, i.e encryption in software.

b. " authorizing use of the software on the computer system by generating the encryption key within

the security device using information supplied from the software". As indicated above, Chou discloses

in the abstract, col 1, lines 26-53 that a first key (or encryption key) that is stored in the program and

a second key (or encryption key), physically separate from the program, is supplied to the customer

with each program sold in a hardware based register. The first and second keys are compared to see

if they bear a predetermined relationship to each other, in which case the software program is

authorized).

c. "sending the encryption key from the security device to the computer system for decryption of the

software". However, the Examiner respectfully disagrees because Chou discloses in the abstract that

the first and second keys in the algorithm for deriving a control key, please note that the control key

is for decrypting the software since it is a part of the second key, and also col 1, lines 7-25, it is

inherent to recognize that the first key can be used to encrypt data and the second key can also be

used to decrypt data since they are parts of the control key, fig 1, specifically external computer or

security device sending encryption key or software protected with algorithm to computer 14).

c. "Control key is generated on the computer, rather than in the security device". As stated above,

Chou discloses in the abstract that the first and second keys in the algorithm for deriving a control

key, please note that the control key is for decrypting the software since it is a part of the second key,

and also col 1, lines 7-25, it is inherent to recognize that the first key can be used to encrypt data and

Page 12

**Art Unit: 3621** 

the second key can also be used to decrypt data since they are parts of the control key, fig 1,

specifically external computer or security device sending encryption key or software protected with

algorithm to computer 14).

Conclusion

8. Any inquiry concerning this communication from the examiner should be directed to Pierre

Eddy Elisca at (703) 305-3987. The examiner can normally be reached on Tuesday to Friday from

6:30AM. to 5:00PM.

If any attempt to reach the examiner by telephone is unsuccessful, the examiner's supervisor,

James Trammell can be reached on (703) 305-9768.

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

The Official Fax Number For TC-3600 is:

(703) 305-7687

Pierre Eddy Elisca

Patent Examiner

December 23, 2003